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SEQUENCE LISTING

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TECH CENTER 1600/2900

- <110> Pastan, Ira H.
Chowdhury, Partha S.
The Government of the United States
as represented by The Secretary of the
Department of Health and Human Services
- <120> Antibodies, Including Fv Molecules, and
Immunoconjugates Having High Binding Affinity for
Mesothelin and Methods for Their Use

<130> 015280-339100US

<140> US 09/581,345
<141> 2000-09-27

<150> US 60/067,175
<151> 1997-12-01

<150> WO PCT/US98/25270
<151> 1998-11-25

<160> 9

<170> PatentIn Ver. 2.0

<210> 1
<211> 723
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:SS scFv

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agccatggaa agaggcttga gtggatttga cttaattactc cttacaatgg tgcttctagc 180
tacaaccaga agttcagggg caaggccaca ttaactgttag acaagtcatc cagcacagcc 240
tacatggacc tcctcagttct gacatctgaa gactctgcag tctatttctg tgcaaggggg 300
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gggttaggcg gttcaggcgg cggtggtctt ggcgggtggcg gatcgacat cgagctcact 420
cagtctccag caatcatgtc tgcatttcca ggggagaagg tcaccatgac ctgcagtgcc 480
agctcaagtg taagttacat gcactggtag cagcagaagt cagggcacctc ccccaaaaaga 540
tggatttatg acacatccaa actggctct ggagtcccag gtcgcttcag tggcagtggg 600
tctggaaact cttactctct cacaatcagc agcgtggagg ctgaagatga tgcaacttat 660
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aaa 723

<210> 2

<211> 1917

<212> DNA

<213> Pseudomonas aeruginosa

<220>

<223> Pseudomonas aeruginosa exotoxin A CDS

<400> 2

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gtgctcgacc tcaaggacgg cgtgcgttcc agccgcata gtcgtcgttcc ggccatcgcc 180
 gacaccaacg gccagggcgt gtcgtactac tccatggtcc tggagggcgg caacgacgcg 240
 ctcaagctgg ccatcgacaa cgcgcgttcc atcaccagcg acggcgttcc catccgcctc 300
 gaaggcggcg tcgagccaa caagccgttcc cgctacagct acacgcgcga ggcgcgcggc 360
 agttggtcgc tgaactggct ggtaccgttcc ggcacgaga agccctcgaa catcaagggtg 420
 ttcatccacg aactgaacgc cggcaacccag ctcagccaca tgcgtccat ctacaccatc 480
 gagatggcgttcc acgagtttcc ggcgaagcttcc ggcgcgttcc ccaccttccgtt cgtcaggggcg 540
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 ctcgacgata cctggaaagg caagatcttcc cgggtgttcc cccggcaaccc ggcgaagcat 780
 gacctggaca tcaaaccac ggtcatcgat catcgcttcc actttcccgat gggcggcagc 840
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<210> 3
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:New G2 NdeI
 back primer

<400> 3
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<210> 4
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:New G2 HindIII
 forward primer

<400> 4
 gcccgttccatc cccggccgcgc cttttatccatc caactttgttcc cc 42

<210> 5
 <211> 241
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:SS scFv
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 Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly
 20 25 30
 Tyr Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp
 35 40 45
 Ile Gly Leu Ile Thr Pro Tyr Asn Gly Ala Ser Ser Tyr Asn Gln Lys
 50 55 60
 Phe Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala
 65 70 75 80
 Tyr Met Asp Leu Leu Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe
 85 90 95
 Cys Ala Arg Gly Gly Tyr Asp Gly Arg Gly Phe Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Thr Val Thr Val Ser Ser Gly Val Gly Gly Ser Gly Gly Gly
 115 120 125
 Gly Ser Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala
 130 135 140
 Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala
 145 150 155 160
 Ser Ser Ser Val Ser Tyr Met His Trp Tyr Gln Gln Lys Ser Gly Thr
 165 170 175
 Ser Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val
 180 185 190
 Pro Gly Arg Phe Ser Gly Ser Gly Asn Ser Tyr Ser Leu Thr
 195 200 205
 Ile Ser Ser Val Glu Ala Glu Asp Asp Ala Thr Tyr Tyr Cys Gln Gln
 210 215 220
 Trp Ser Gly Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile
 225 230 235 240
 Lys

<210> 6
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence:linker peptide
 connecting V-H and V-L in SS scFv

<400> 6
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1 5 10 15

<210> 7
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide linker

<400> 7
Gly Gly Gly Ser
1

<210> 8
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:carboxyl
terminus

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<400> 8
Lys Asp Glu Leu
1

<210> 9
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:carboxyl
terminus

<400> 9
Arg Glu Asp Leu
1